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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/727,198	12/02/2003	Simon Robert Walmsley	PEA23US	4548
	7590 11/14/2007 K RESEARCH PTY LTD	EXAMINER		
393 DARLING STREET			LE, DINH THANH	
BALMAIN, 2041 AUSTRALIA			ART UNIT	PAPER NUMBER
			2816	
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			11/14/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/727,198	WALMSLEY, SIMON ROBERT			
Office Action Summary	Examiner	Art Unit			
•	DINH T. LE	2816			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address					
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be to will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 29 October 2007.					
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.				
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1 and 3-6</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1 and 3-6</u> is/are rejected.		·			
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers					
9) The specification is objected to by the Examine	ır				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
1.☐ Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
•					
Attachment(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal 6) Other:				

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NON-FINAL REJECTION

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/29/2007 has been entered.

Claims Rejections

Claim Rejections - 35 USC § 112

Claims 1 and 3-6 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. It is not understood how "the clock filter can prevent output of the clock to a logic circuitry" as recited in claim 1 since the present specification does not disclose or shows in detail anything about how the filter can prevent the system clock. Clarification is required.

Claims 1 and 3-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Correction or clarification is required.

In claim 1, it is not understood what the "logic circuitry" is, how the filter can "prevent" the system clock when it is not connected to anything and how the recitation "the filter to prevent

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output of the system clock", "logic circuitry", "sensor" and "system clock" is read on the preferred embodiment. Insofar as understood, no such filter, circuitry and clock are seen on the drawings.

The remaining claimed are dependent from claim 1 and therefore also considered indefinite.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 1 is rejected under 35 USC 102 (e) as being anticipated by Uchida et al (US 6,731,919).

As the best construed, Uchida et al discloses in Figure 1 a circuit comprising:

a clock filter (4, 18) configured to determine a detect an under temperature condition of the integrated circuit, at which the temperature is below a predetermined temperature, and to alter an output of the system clock (8) in the event that under temperature condition is below a predetermined temperature, see 1-11, column 10.

Claim 1 is rejected under 35 USC 102 (e) as being anticipated by Yamazaki (JP409212254)

As the best construed, Yamazaki discloses in Figure 1 a circuit comprising:

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a clock filter (1-3) configured to determine a detect an under temperature condition of the integrated circuit (8), at which the temperature is below a predetermined temperature, and to alter an output of the system clock (7) in the event that under temperature condition is below a predetermined temperature.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 3-6 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Chemla (U.S Patent No. 5,805,403) in view of Yamazaki (JP409212254)..

As the best construed, Chemla discloses in figs. 1-5 an integrated circuit temperature monitoring and protection system including: an on-board system clock (CLOCK), the integrated circuit (10) including a clock filter (20) configured to determine a temperature of the integrated circuit (60 determine a temperature for the integrated circuit 10) and to alter an output of the system clock (CLOCK).

Regarding claim 3, altering the output includes preventing the clock signal from reaching one or more logical circuits on the integrated circuit to which it would otherwise be applied (when switch 46 is open).

Regarding claim 4, the predetermined temperature range is selected such that a temperature-related speed of the system clock output that is not due to the clock filter is within a

predetermined frequency range (inherently seen in the abstract and the summary of the Chemla's reference).

Regarding claim 5, the frequency range is within an operating frequency of some or all of the logic circuitry to which the system clock is supplied (inherently seen in the abstract and the summary of the Chemla's reference).

Regarding claim 6, the temperature range is bounded at a lower level such that an output of the system clock is prevented from reaching some or all of the logic circuitry prior to race conditions due to low temperature causing unpredictable logical behavior (see cols. 3-6).

However, Chmla does not disclose that the detected temperature is below a predetermined temperature.

Nevertheless, Yamazaki suggests in Figure 1 a detection circuit (3, 2, 1) for detecting a temperature of the chip (8) below a predetermined temperature to improve reliability by stabilizing clock margin, see the Abstract.

It would have been obvious to a person having skill in the art at the time the invention was made to incorporate the suggestion of Yamazaki into the circuit of Chemla for the purpose of detecting the temperature below a predetermined temperature to stabilize the clock margin.

Claims 1 and 3-6 are, insofar as understood, rejected under 35 U.S.C. 103(a) as being unpatentable over Kitano (U.S Patent No. 5,870,267) in view of Yamazaki (JP409212254).

Kitano discloses in Figs. 1-2 a semiconductor integrated circuit device including: the integrated circuit (Fig. 1) including an on-board system clock (CK, Fig. 2), the integrated circuit (Fig. 1) including a clock filter (4) configured to determine a temperature of the integrated

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circuit (Fig. 1) and to alter an output of the system clock (CK) based on the temperature as recited in claim 1. See the abstract, lines 6 - last line.

Regarding claims 3-6, figs. 1-2 of Kitano is capable of performing the function as recited in these claims. See col. 5, lines 8-21.

However, Kitano does not disclose that that the detected temperature is below a predetermined temperature.

Nevertheless, Yamazaki suggests in Figure 1 a detection circuit (3, 2, 1) for detecting a temperature of the chip (8) below a predetermined temperature to improve reliability by stabilizing clock margin, see the Abstract.

It would have been obvious to a person having skill in the art at the time the invention was made to incorporate the suggestion of Yamazaki into the circuit of Kitano for the purpose of detecting the temperature below a predetermined temperature to stabilize the clock margin.

Response to Applicant's Arguments

The applicant argues that both Uchida and Yamazaki specifically disclose increasing clock signal frequency when decreased operating temperatures are detected (see col. 4, line 50-col. 6, line 14 of Uchida, and abstract and paragraph [0039] of Yamazaki), which is contrary to the operation recited in the claimed invention. Further, both Chemla and Kitano only disclose stopping a clock signal within an integrated circuit when an over temperature conditions is detected (see col. 3, line 48-col. 4, line 44 of Chemla, and col. 5, line 8-52 of Kitano). The arguments are not persuasive because the arguments are based on unclear recited limitation as

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stated above. Thus, the rejected claims remain readable on the Uchita, Yamazaki, Chemla and Kitako references.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DINH T. LE whose telephone number is (571) 272-1745. The examiner can normally be reached on Monday-Friday (8AM-7PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Richards, can be reached at (571) 272-1736.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

11/7/07

DINH I.LE PRIMARY EXAMINER